

• ***Education***

PhD of Neuroscience (Feb 2015-Feb 2020). Department of Neuroscience, Faculty of Advanced Technology in Medicine, Iran University of Medical Sciences, Tehran, Iran. Thesis: Determining protective effect of klotho and linagliptin in Alzheimer's disease via assessment of Wnt, pCREB, PKC ϵ signaling, miRNAs, and inflammatory cytokine.

MSc of Physiology (2008-2010). Department of Physiology, Faculty of Biological Science, Kharazmi University, Tehran, Iran. Project: Effect of mPFC electrical stimulation on morphine-induced conditioned place preference (CPP) in rat.

BSc of Nursing (2005-2007). Faculty of Nursing. Medical University of Shahrekord, Shahrekord, Iran.

Associate's degree of Operating Room Technician (2002-2004). Faculty of Nursing, Isfahan University of Medical Sciences (MUI), Isfahan, Iran.

• ***Membership***

Iranian Neuroscience Society (INSS)

International Brain Research Organization (IBRO)

Canadian Association for Neuroscience (CAN)

• ***Achievement and awards***

Young Researcher Award, Iranian Neuroscience Society (INSS), September 2019.

FENS-IBRO/PERC grant for participating in the FENS 2020 Virtual Forum.

• ***Research experiences***

Research Associate, Trauma & Injury Research Center, IUMS, Tehran, Iran (since 2021).

Research Assistant, Cardiovascular Research Center, MUI, Esfahan, Iran (2013-2020).

• ***Skills***

Wet lab skills (Cell Culture, ELISA, RT-PCR), Quantitative Research, Clinical Outcome Research Data Analysis (SPSS, Prism, MATLAB), Microsoft Office, EndNote, Writing Scientific Manuscripts

• ***Publications***

Amanollahi A, Babeveynezhad T, **Sedighi M**, Shadnia S, Akbari S, Taheri M, Besharatpour M, Jorjani G, Salehian E, Etemad K, Mehrabi Y. Incidence of rhabdomyolysis occurrence in psychoactive substances intoxication: a systematic review and meta-analysis. *Sci Rep.* 2023 Oct 17;13(1):17693. doi: 10.1038/s41598-023-45031-4.

Amanollahi A, Mehrabi Y, **Sedighi M**, Basir Ghafouri H, Zahedi A, Shadnia S, Etemad K. Assessment of renal function indexes in methamphetamine or tramadol intoxication adults to the emergency departments: a systematic review and meta-analysis. *BMC Emergency Medicine*. 2023;23(1):1-9.

Nabizadeh F, Balabandian M, Rostami MR, Mehrabi S, **Sedighi M**. Regional cerebral blood flow and brain atrophy in mild cognitive impairment and Alzheimer's disease. *Neurology Letters*. 2023;2(1):16-24.

Shirvani F, **Sedighi M***, Shahzamani M. Metabolic disturbance affects postoperative cognitive function in patients undergoing cardiopulmonary bypass. *Neurological Sciences*. 2022 Jan;43(1):667-72.

Fahanik-Babaei J, **Sedighi M***, Mehrabi S, et al. Preliminary report of Iranian Registry of Alzheimer's Disease in Tehran province: A cross sectional study in Iran. *Health Sci Rep*. 2022;5:e952. doi:10.1002/hsr2.952.

Sedighi M*, Baluchnejadmojarad T, Roghani M. Linagliptin protects human SH-SY5Y neuroblastoma cells against amyloid β cytotoxicity via activation of Wnt1 and suppression of IL-6 release. *Iran Biomed J*. 2021; 25 (5) :343-348.

Sedighi M, Baluchnejadmojarad T, Amiri M, Aminzadeh M, Afshin-Majdd S, Roghani M. Anti- aging Klotho protects SH-SY5Y cells against amyloid β 1-42 neurotoxicity: Involvement of Wnt1/pCREB Nrf2/HO-1 signaling. *J Mol Neurosci*. 2021; 71, 19–27.

Sedighi M, Baluchnejadmojarad T, Fallah S, Moradi N, Afshin-Majdd S, Roghani M. Association of circulating klotho and dipeptidyl peptidase-4 activity with inflammatory cytokines in elderly patients with Alzheimer's disease. *Basic Clin Neurosci*. 2020;11(3), 349-358.

Sedighi M*, Baluchnejadmojarad T, Fallah S, Moradi N, Afshin-Majdd S, Roghani M. Klotho Ameliorates Cellular Inflammation via Suppression of Cytokine Release and Upregulation of miR- 29a in the PBMCs of Diagnosed Alzheimer's Disease Patients. *J Mol Neurosci*. 2019; 69(1):157–165.

Zeinali H, Baluchnejadmojarad T, Fallah S, **Sedighi M**, Moradi N, Roghani M. S-allyl cysteine improves clinical and neuropathological features of experimental autoimmune encephalomyelitis in C57BL/6 mice. *Biomed Pharmacother*. 2017; 97:557-63.

Kargari A, Ramshini E, Alaei H, **Sedighi M**, Oryan S. Different current intensities electrical stimulation of prelimbic cortex of mPFC produces different effects on morphine induced conditioned place preference in rats. *Behav Brain Res*. 2012;23(1):187-192.

• **International Conferences**

12th Basic and Clinical Neuroscience Congress, December 25-27, 2023, Tehran, Iran.

11th IBRO World Congress held in Granada, Spain, 9-13 September 2023 (Poster presentation).

* Corresponding author

1st Annual Meeting of ISMRM Iranian Chapter, 24-26 August 2022, Tehran, Iran (Speaker).

9th International Conference on Cognitive Science, 18-20 May 2022, Tehran, Iran (Speaker).

FENS 2020 Virtual Forum, 11-15 July 2020 (Poster presentation).

10th IBRO World Congress of Neuroscience (IBRO 2019) in Daegu, Republic of Korea on 21-25 September 2019 (Poster presentation).

4th International symposium " Low vision and the Brain " 24 -26 November 2017, Berlin, Germany.

4th Basic and Clinical Neuroscience Congress, December 23-25, 2015, Tehran, Iran.

1st Tehran IBRO/APRC Associate school of Neuroscience on Functional Human Brain Mapping. May, 22-28, 2015, Tehran, Iran (*contributed as organizer*).

4th International Conference of Cognitive Science, University of Tehran, Iran, 2011 (*Poster presentation*).
